

91-250601/34 L02 M25
GOSSTRO CONCRETE *SU 1595-823-A
25.02.88-SU-407251 (30.09.90) C04b-28/08 C04b-38/08
Raw material compsn. for lightweight concrete prodn. - contains
slag Portland cement, finely ground slag additive, slag pumice, air-
entraining additive, bauxite slurry and water
C91-109064

The raw material compsn. contains (in wt. %): slag-Portland cement 5.9-10.5; finely ground slag additive 2.1-5.1; slag pumice fraction 5-20 mm 40.8-41.8; slag pumice fraction not greater than 5 mm 28.7-32.4; and air-entraining additive (i.e. a 5:1 pts wt. mixt. of neutralised air entraining tar and sulphite-yeast residues in the form of 5% solns.) 0.5-0.8; bauxite slurry from alumina prodn. 1.8-5.9 and water the remainder.

The finely ground slag additive is obtnd. from blast furnaces and it contains (in %): SiO₂ 37.5; Al₂O₃ 8.7; Fe₂O₃ 0.4; CaO 44.2; R₂O (R = alkali metal) 8.7; Ti 2.1; and calcination loss the remainder.

The bauxite slurry is used as an active mineral additive and is obtnd. as a waste prod. in the hydrochemical prodn. of alumina. The slurry comprises (in %): SiO₂ 22.5; Al₂O₃ 7.2; Fe₂O₃ 20.8; CaO 39.3; R₂O 3.5; Ti 0.4; and calcination loss the remainder.

USE/ADVANTAGE - Prepn. of lightweight compsns. contg. porous slag fillers for the building industry. The use of the bauxite slurry component reduces the consumption of cement to 115-200 kg/cu.m for concrete grade 'M 50' and increases its resistance in

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L(2-D3) M(25-E1, 25-G1)

aggressive media. Bul.38/30.9.80 (4pp Dwg.No.0/0)